Appl. No.

09/077,173

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receptor has an amino acid sequence having more than 60% homology with the DNA sequence shown in SEO ID NO:1.

84. (Twice Amended) A method for determining whether a ligand can activate a receptor which binds nucleotides, wherein said receptor has an amino acid sequence having more than 60% homology with the amino acid sequence shown in SEQ ID NO:2, comprising the steps of:

preparing an extract from cells expressing the receptor; isolating a membrane fraction from said extract; contacting said membrane fraction with said ligand; and

assaying said membrane fraction for increased receptor activity, wherein increased activity indicates that said ligand is an activator of said receptor.

Please add the following claims:

- 93. The receptor of Claim 70 wherein the receptor has at least a two-fold increased functional response for pyrimidine nucleotides over purine nucleotides.
- 94. The receptor of Claim 93 wherein in the presence of pyrimidine nucleotides, the receptor presents a functional response to lower concentrations of pyrimidine nucleotides than to purine nucleotides as well as an increased response to similar concentrations of pyrimidine nucleotides than to purine nucleotides.
- 95. The isolated nucleic acid molecule of Claim 74 wherein the receptor has at least a two-fold increased functional response for pyrimidine nucleotides over purine nucleotides.
- 96. The isolated nucleic acid molecule of Claim 95 wherein in the presence of pyrimidine nucleotides, the receptor presents a functional response to lower concentrations of pyrimidine nucleotides than to purine nucleotides as well as an increased response to similar concentrations of pyrimidine nucleotides than to purine nucleotides.
- 97. The antisense probe of Claim 80 wherein the receptor has at least a two-fold increased functional response for pyrimidine nucleotides over purine nucleotides.
- 98. The antisense probe of Claim 97 wherein in the presence of pyrimidine nucleotides, the receptor presents a functional response to lower concentrations of pyrimidine nucleotides than to purine nucleotides as well as an increased response to similar concentrations of pyrimidine nucleotides than to purine nucleotides.